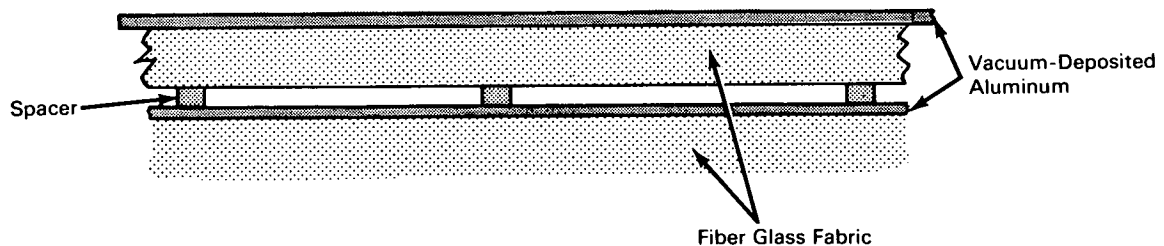


NASA TECH BRIEF



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Aluminized Fiber Glass Insulation Conforms to Curved Surfaces



The problem:

To provide a flexible, reflective thermal insulation that will easily conform to curved surfaces. The insulation must present a barrier of low thermal conductivity and be made of material from which trapped gases can be readily evacuated.

The solution:

An insulation material consisting of layers of fiber glass fabric with outer reflective films formed by vacuum deposition of aluminum or other reflective metal.

How it's done:

The metallized sheets of fiber glass are stacked upon one another to any desired thickness. Spacers of fiber glass or other permeable, inorganic material are placed between the sheets to facilitate removal of trapped gases and provide more effective radiation shielding.

Notes:

1. This insulation should be very effective for cryogenic systems.
2. Inquiries concerning this invention may be directed to:

Technology Utilization Officer
Marshall Space Flight Center
Huntsville, Alabama, 35812
Reference: B66-10024

3. A related innovation is described in NASA Tech Brief 65-10044, March 1965.

Patent status:

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code AGP, Washington, D.C., 20546.

Source: North American Aviation, Inc.
under contract to
Marshall Space Flight Center
(M-FS-477)
Category 03